

KHX1866C9S3K2/4GX

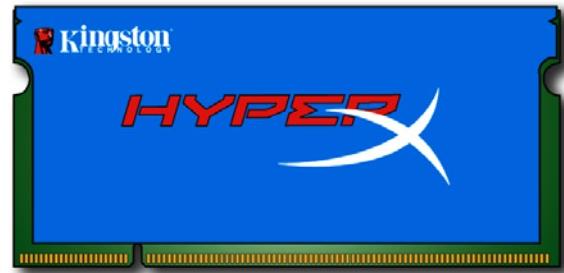
**4GB (2GB 256M x 64-Bit x 2 pcs.) DDR3-1866MHz
CL9 204-Pin SODIMM Kit**

DESCRIPTION:

Kingston's KHX1866C9S3K2/4GX is a kit of two 256M x 64-bit (2GB) DDR3-1866MHz CL9 SDRAM (Synchronous DRAM) memory modules, based on sixteen 128M x 8-bit DDR3 FBGA components per module. Total kit capacity is 4GB. Each module kit has been tested to run at DDR3-1866MHz at a low latency timing of 9-9-9-27-2T at 1.5V. The SPDs are programmed to JEDEC standard latency DDR3-1333MHz timing of 9-9-9 at 1.5V. Each 204-pin SODIMM uses gold contact fingers and requires +1.5V. The JEDEC standard electrical and mechanical specifications are as follows:

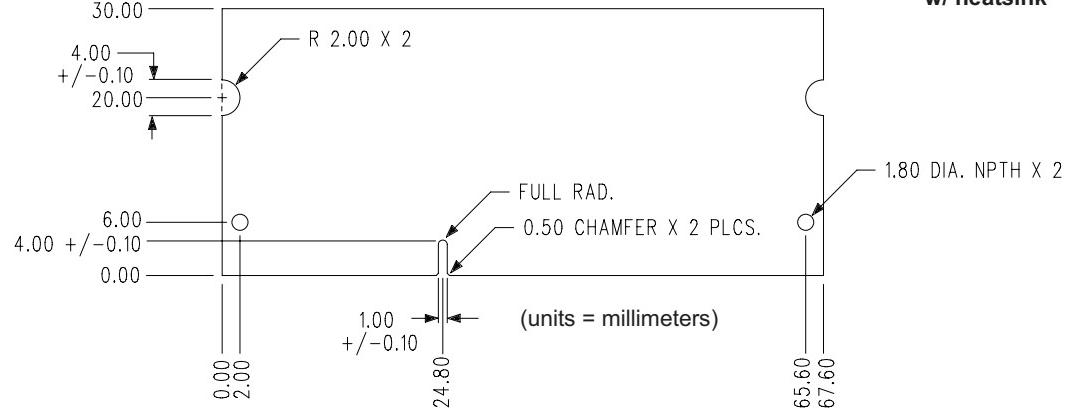
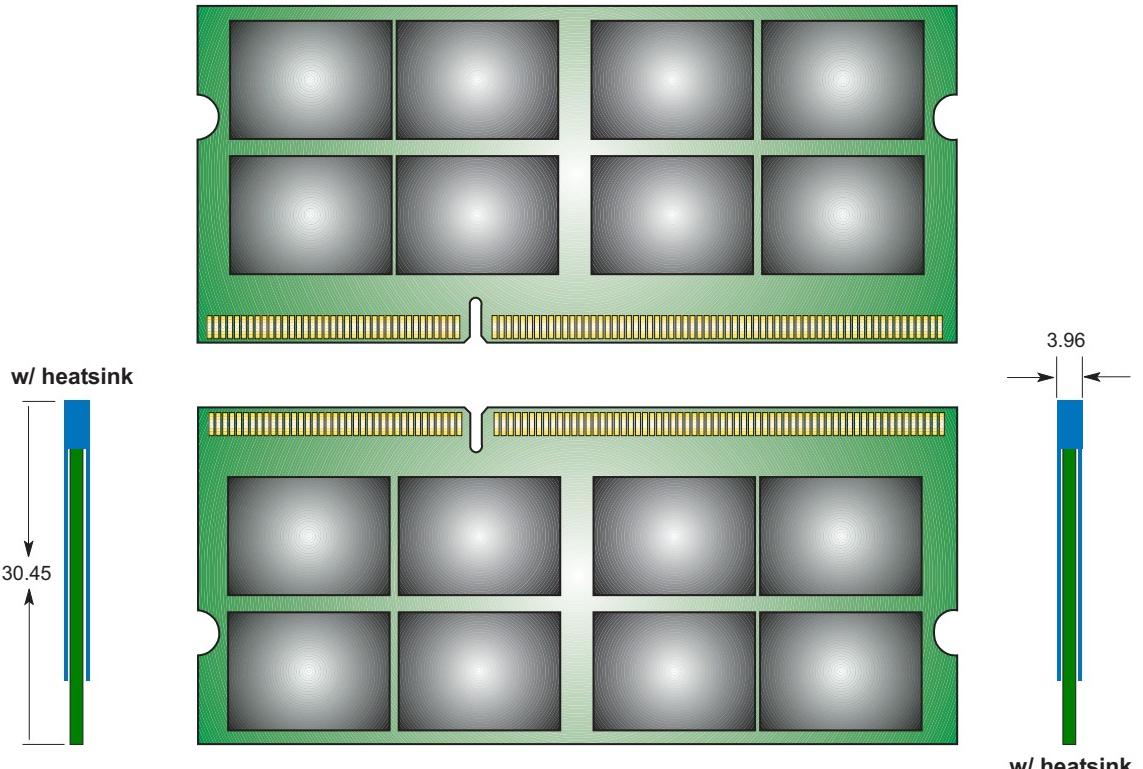
FEATURES:

- JEDEC standard 1.5V ± 0.075V Power Supply
- VDDQ = 1.5V ± 0.075V
- 667MHz fCK for 1333Mb/sec/pin
- 8 independent internal bank
- Programmable CAS Latency: 5,6,7,8,9,10
- Posted CAS
- Programmable Additive Latency: 0, CL - 2, or CL - 1 clock
- Programmable CAS Write Latency(CWL) = 7(DDR3-1333)
- 8-bit pre-fetch
- Burst Length: 8 (Interleave without any limit, sequential with starting address "000" only), 4 with tCCD = 4 which does not allow seamless read or write [either on the fly using A12 or MRS]
- Bi-directional Differential Data Strobe
- Internal(self) calibration : Internal self calibration through ZQ pin (RZQ : 240 ohm ± 1%)
- On Die Termination using ODT pin
- Average Refresh Period 7.8us at lower than TCASE 85°C, 3.9us at 85°C < TCASE . 95°C
- Asynchronous Reset
- PCB : Height 1.180" (30.00mm), double sided component



PERFORMANCE:

<input checked="" type="checkbox"/> CL(IDD)	9 cycles
<input checked="" type="checkbox"/> Row Cycle Time (tRCmin)	49.5ns (min.)
<input checked="" type="checkbox"/> Refresh to Active/Refresh Command Time (tRFCmin)	110ns
<input checked="" type="checkbox"/> Row Active Time (tRASmin)	36ns (min.)
<input checked="" type="checkbox"/> Power	1.125 W (operating per module)
<input checked="" type="checkbox"/> UL Rating	94 V - 0
<input checked="" type="checkbox"/> Operating Temperature	0° C to 85° C
<input checked="" type="checkbox"/> Storage Temperature	-55° C to +100° C

MODULE DIMENSIONS:**w/ Heatsink Assembly**